

Symantec™ Client Security for Nokia® Communicator - Corporate Edition Implementation Guide



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Introducing Symantec Client Security for Nokia Communicator - Corporate Edition

This chapter includes the following topics:

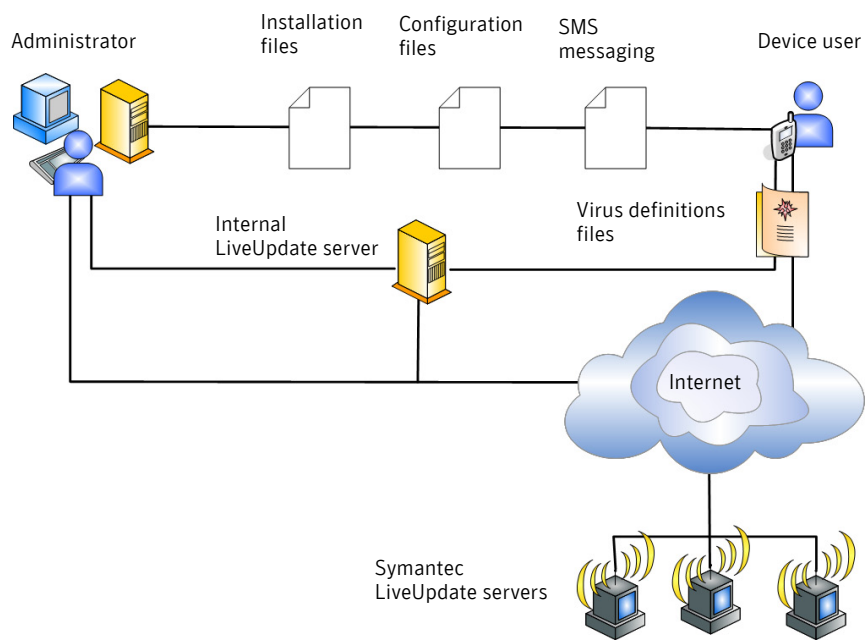
- [About Symantec Client Security](#)
- [Components of Symantec Client Security](#)
- [How Symantec Client Security works](#)
- [What you can do with Symantec Client Security](#)
- [Where to get more information](#)

This implementation guide is for administrators who manage multiple Nokia 9500 Communicators. It contains the information you need to install, update, and configure devices remotely.

To learn how to use the basic functions of Symantec Client Security on the Nokia 9500 Communicator, direct users to the context-sensitive Help and the Help file on the devices.

About Symantec Client Security

Symantec Client Security for Nokia Communicator - Corporate Edition provides secure mobile computing through comprehensive, reliable protection against malicious attacks directed at Nokia Communicators.



Components of Symantec Client Security

[Table 1-1](#) lists and describes the components of Symantec Client Security.

Table 1-1 Symantec Client Security components

Component	What it does	Where it resides
Symantec Settings Builder administration tool	Enables administrators to create configuration files to set and lock antivirus and firewall parameters, and set LiveUpdate™ parameters on the devices. Administrators can transfer configuration files to the devices. See “Configuring Symantec Client Security” on page 39.	On the administrator's computer

Table 1-1 Symantec Client Security components

Component	What it does	Where it resides
Symantec AntiVirus™	<p>Provides antivirus protection, and logs antivirus activities. Symantec AntiVirus is installed with Symantec Client Security.</p> <p>See “About scanning for and responding to viruses” on page 25.</p> <p>Administrators can remotely initiate interactive and non-interactive virus scans.</p> <p>See “Initiating scans and updates remotely” on page 35.</p>	On the device
Symantec™ Client Firewall	<p>Provides proactive network and application-level protection, and logs firewall activities. Symantec Client Firewall is installed with Symantec Client Security.</p> <p>See “About firewall protection” on page 27.</p>	On the device
LiveUpdate Wireless	<p>Allows users to update virus definitions files and Symantec products using an Internet connection. LiveUpdate Wireless obtains updates from the Symantec LiveUpdate server or an internal LiveUpdate server if configured by the administrator. LiveUpdate Wireless is installed with Symantec Client Security.</p> <p>See “Updating devices” on page 31.</p> <p>See “LiveUpdate Wireless configuration parameters” on page 44.</p> <p>Administrators can remotely initiate LiveUpdate Wireless sessions.</p> <p>See “Initiating scans and updates remotely” on page 35.</p>	On the device

How Symantec Client Security works

The Symantec Client Security components work together to protect the devices from threats.

To understand how Symantec Client Security works, you need to know the following:

- [How the devices are protected](#)
- [How virus protection and Symantec Client Security are updated](#)
- [How activities are logged](#)

How the devices are protected

Symantec Client Security is an integrated security solution that combines antivirus and firewall protection for devices.

What happens when Symantec Client Security finds a virus

When Symantec Client Security identifies a suspicious file, either through Auto-Protect or an on-demand scan, it does the following:

- Blocks access to the file
- Displays a dialog that provides information about the potentially infected file and the option of deleting the file, repairing the file (if possible), or leaving the file as is
- Logs the found virus in the Activity Log
See [“About the Activity Log”](#) on page 28.

[Table 1-2](#) summarizes the types of virus scans that Symantec Client Security supports.

Table 1-2 Types of virus scans

Scan type	Description
Auto-Protect	<p>Real-time scanning continuously inspects files as users access them on the devices. Real-time protection is enabled by default.</p> <p>Administrators can lock Auto-Protect on if they want to enforce a virus policy. Users cannot change any option that an administrator locks.</p> <p>See “Auto-Protect scans” on page 26.</p>

Table 1-2 Types of virus scans

Scan type	Description
On-demand	<p>On-demand (manual) scans inspect files and folders on the device and memory cards, and offer users the opportunity to delete, repair (if possible), or allow the file to remain as is.</p> <p>An administrator can remotely initiate interactive or non-interactive virus scans on the device.</p> <p>See “Remote virus scans” on page 27.</p>

What happens when the firewall detects an unauthorized activity

When the Symantec Client Security firewall detects an unauthorized activity such as blocked inbound or outbound connections or port scanning attempts, it does the following:

- Displays a dialog that provides information about the unauthorized activity
 - Logs the firewall activity in the Activity Log
- See [“About the Activity Log”](#) on page 28.

How virus protection and Symantec Client Security are updated

Symantec™ Security Response provides administrators and users with regular updates to virus definitions files to keep their virus protection current. In addition, Symantec may also provide software updates to Symantec Client Security.

Symantec Client Security offers the following methods of obtaining updates:

LiveUpdate Wireless directly from the Symantec LiveUpdate server	Symantec Client Security can use LiveUpdate Wireless to connect to the Symantec LiveUpdate server and obtain virus definitions files and product updates the next time that the device connects to the Internet. Users can initiate updates on the devices or administrators can initiate updates remotely.
LiveUpdate Wireless using an internal LiveUpdate server	LiveUpdate Wireless on the device can pull virus definitions files and product updates from an internal LiveUpdate server the next time that the device connects to the network. Administrators can configure this update method.

See [“LiveUpdate Wireless”](#) on page 32.

How activities are logged

The Symantec Client Security software on the device records information about the following actions that are performed on the device:

Antivirus activities	<ul style="list-style-type: none">■ Partial and full virus scans■ Viruses found■ Repaired files■ Infected files deleted■ Infected files not deleted
Firewall activities	<ul style="list-style-type: none">■ Blocked outbound TCP connections■ Blocked inbound TCP connections■ Port scanning attempts (suspicious network activity, which may be a port scan)

Users can view this data directly on the device.

See [“About the Activity Log”](#) on page 28.

What you can do with Symantec Client Security

You can do the following with Symantec Client Security:

Protect the devices with real-time and on-demand scanning for viruses.	<p>Symantec Client Security provides antivirus protection for the devices on which it runs. Auto-Protect monitors activity on the device and looks for viruses when users open, run, rename, or move files, or copy files to and from folders. Users can initiate on-demand scans that systematically check the files on the device for viruses. Administrators can initiate remote scans on the devices.</p> <p>See “About scanning for and responding to viruses” on page 25.</p>
Protect the devices with centralized firewall management.	<p>Symantec Client Security provides firewall protection for the devices on which it runs. Centralized firewall management lets you create and modify firewall policy files, and then push them to the devices.</p> <p>See “About firewall protection” on page 27.</p>

Update virus protection.	<p>Symantec Client Security employs virus definitions files to detect known Symbian OS™ viruses. Symantec makes updated virus definitions files available regularly.</p> <p>For Nokia Communicators, LiveUpdate Wireless can obtain the latest virus definitions and product updates over the Internet.</p> <p>See “Updating devices” on page 31.</p>
Monitor antivirus activity.	<p>The Activity Log on the device provides key information about antivirus activities, including partial scans, full scans, found viruses, repaired files, deleted infected files, and failures to delete infected files.</p> <p>See “About the Activity Log” on page 28.</p>
Monitor intrusion attempts.	<p>The Activity Log on the device provides key information about firewall activities, including blocked outbound TCP connections, blocked inbound TCP connections, and port scanning attempts (suspicious network activity, which may be a port scan).</p> <p>See “About the Activity Log” on page 28.</p>
Centrally update and configure multiple devices.	<p>Administrators use their existing infrastructure to transfer update and configuration files to multiple devices, and to remotely initiate product and virus definitions updates and virus scans.</p> <p>See “Configuring Symantec Client Security” on page 39.</p> <p>See “Initiating scans and updates remotely” on page 35.</p>

Where to get more information

This *Symantec Client Security for Nokia Communicator - Corporate Edition Implementation Guide* for administrators is available in PDF format on the product CD in the following location:

Manual\scs_nokia_imp.pdf

A printed version of this guide is also included.

User documentation is provided on the devices in the form of context-sensitive Help and the Help file.

For late-breaking news, read the Readme.txt file, which is located in the root directory on the CD.

[Table 1-3](#) lists Symantec Web sites that provide additional information.

Table 1-3 Symantec Web sites

Types of information	Web address
Public Knowledge Base	http://www.symantec.com/techsupp/enterprise/
Releases and updates	
Manuals and documentation	
Contact options	
Virus and other threat information and updates	http://securityresponse.symantec.com
Product news and updates	http://enterprisesecurity.symantec.com
Platinum Support Web access	https://www-secure.symantec.com/platinum/

Installing Symantec Client Security

This chapter includes the following topics:

- [System requirements](#)
- [Installing the Symantec Client Security product](#)
- [Testing the installation](#)
- [Uninstalling Symantec Client Security](#)

System requirements

If you plan to push the installation files from a computer that uses mobile device management software, you need to install Nokia PC Suite in addition to the mobile device management software.

Install Symantec Settings Builder on the computer from which you plan to push configuration files to the devices.

[Table 2-1](#) lists the system requirements for copying files from the CD and for using the Symantec Settings Builder administration tool.

Table 2-1 CD Start and Symantec Settings Builder system requirements

Operating system	Requirements
Windows NT® 4.0 Workstation/Server with Service Pack 6a	<ul style="list-style-type: none"> ■ Pentium 100 MHz ■ 58 MB of RAM
Windows 2000 Server™/Advanced Server/Professional with Service Pack 2	<ul style="list-style-type: none"> ■ Pentium 233 MHz with MMX ■ 58 MB of RAM
Windows® XP Professional with Service Pack 2	
Windows 2003 .NET Server	

[Table 2-2](#) lists the system requirements for the devices.

Table 2-2 Device requirements

Operating system or component	Requirements
Symbian OS	<ul style="list-style-type: none"> ■ Installation footprint: 300 KB ■ Nokia Communicator 9500 or other series 80 platform 2.0 compatible device
LiveUpdate Wireless	Internet connection

Installing the Symantec Client Security product

To install Symantec Client Security, you must perform the following tasks:

- Install the Symantec Client Security Symantec Settings Builder administration tool on the administrator's computer.
See [“Installing the Symantec Settings Builder administration tool”](#) on page 21.
- Install Symantec Client Security on the devices.
See [“Installing Symantec Client Security on the devices”](#) on page 21.

Installing the Symantec Settings Builder administration tool

You need to copy the Symantec Settings Builder administration tool files to the computer that hosts your existing infrastructure for pushing configuration files and updates.

To install the Symantec Settings Builder administration tool

- 1 Insert the Symantec Client Security CD into the CD-ROM drive.
- 2 Click **Browse CD**.
- 3 From the Tools folder, copy the following files to any directory on the computer:
 - ssb.exe
 - ssb.ini

See [“Configuring Symantec Client Security”](#) on page 39.

Installing Symantec Client Security on the devices

You need to copy the installation (.sis) file to the devices and run it.

To install Symantec Client Security on the devices

- 1 Insert the Symantec Client Security CD into the CD-ROM drive of the computer that will push the installation.
- 2 Click **Browse CD**.
- 3 From the root directory, copy the SymCS_S80_70s_corp_AM.sis file into the location from which you usually push files to your devices.
- 4 Place the .sis file onto the devices. For example, you might do one of the following:
 - Configure the existing infrastructure from which you push installation files to put the .sis file into any location on the devices.
 - Place the memory card that contains the .sis file into each of the devices, and then copy the .sis file into any location on the devices.

- 5 After the .sis file is on the devices, run it. For example, you might do one of the following:
 - Configure the existing infrastructure from which you push installation files to run the .sis file remotely.
 - Run the .sis file, or have your users run the .sis file on each of the devices.



- 6 Users must then follow the on-screen instructions to complete the installation.

An icon for Symantec Client Security appears on the Desk after installation is complete.

If you need to reinstall

The installation may fail if one or more files are missing or corrupted, or if the device has been reset.

To reinstall Symantec Client Security

- 1 Uninstall Symantec Client Security.

See [“Uninstalling Symantec Client Security”](#) on page 23.
- 2 Ensure that the following Symantec files are removed:
 - C:\System\Apps\SymCS\ directory and its contents
 - C:\System\Apps\SymLU\ directory and its contents
 - C:\System\Help\Sym*. * files
 - C:\System\Libs\Sym*. * files

The on-device File Manager displays Communicator rather than C: in the file hierarchy.

If the System folder does not appear in the file hierarchy, configure File Manager to display it.
- 3 Reinstall using the standard installation procedure.

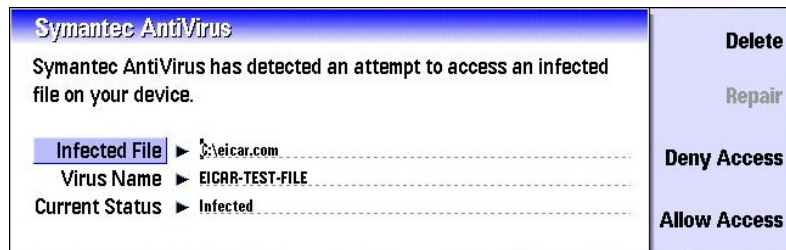
See [“Installing the Symantec Client Security product”](#) on page 20.

Testing the installation

You can verify that Symantec Client Security is active by downloading the standard European Institute for Computer Anti-Virus Research (EICAR) test file, and copying it to the device.

To test the installation

- 1 Download the EICAR test file from www.eicar.org
You may need to turn off virus scanning on the administrator's computer temporarily to access the EICAR test file. Make sure that you turn on virus scanning on the administrator's computer after you are finished.
- 2 Copy the EICAR test file to the device and open it.
If the installation of Symantec Client Security is successful, a dialog appears.



Uninstalling Symantec Client Security

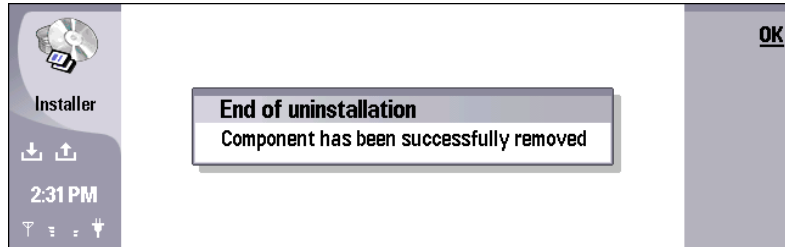
To uninstall Symantec Client Security, you must remove the Symantec Settings Builder administration tool from the administrator's computer, and then remove the Symantec Client Security files from the devices.

To uninstall the Symantec Settings Builder administration tool files

- 1 Locate and delete the following Symantec Settings Builder files:
 - ssb.exe
 - ssb.ini
- 2 Locate and delete any .cfg files that the tool generated.
The .cfg files are located in the same directory as the ssb.exe and ssb.ini files, by default.

To uninstall Symantec Client Security on the devices

- 1 In the Desk view, select **Tools > Control panel > Data management > Application manager**.
- 2 In the Application manager view, on the Installed software page, select **Symantec Client Security > Remove**.



Protecting devices with Symantec Client Security

This chapter includes the following topics:

- [About scanning for and responding to viruses](#)
- [About firewall protection](#)
- [What to tell users about Symantec Client Security](#)
- [About the Activity Log](#)
- [Best practices for protecting devices](#)

About scanning for and responding to viruses

To understand how scanning works, you need to know about the following types of scans:

- [Auto-Protect scans](#)
- [Compressed file scans](#)
- [Expansion card scans](#)
- [Remote virus scans](#)

Administrators can configure and lock scan settings using a configuration file that is pushed to the devices.

See [“Configuring Symantec Client Security”](#) on page 39.

Auto-Protect scans

As users access files on the devices, Auto-Protect provides real-time virus scanning. Although infected files, including email messages or expansion card files, could be stored on the device, these files are checked when users attempt to open them. Auto-Protect scans all of the files on expansion cards only after users initiate an on-demand scan.

When Auto-Protect scans a suspicious file, it blocks access to the file and presents a dialog that lets users do the following:

Repair	This action attempts to repair the infected file.
Delete	This action deletes the infected file and is the recommended action.
Deny Access	This action does not open the infected file and stops the current activity to prevent users from using an infected file.
Allow	This action continues the current activity. Users select this action only if they are sure that a virus is not at work. Users will receive an alert each time that they open the file.

Auto-Protect implements a file name-based cache to minimize performance impact.

Note: If the Auto-Protect setting on the device is not locked by the administrator, users can turn off Auto-Protect, even if it is turned on by the administrator in the configuration file.

Compressed file scans

Compressed files (for example, .sis, .jar, and .zip files) may contain infected files. When users open a compressed file, the files that it contains are not scanned by Auto-Protect until they are extracted and then accessed.

Users must extract and scan all files; repair the infected files; and if possible, delete and recreate the compressed file.

When users initiate on-demand scans, the files inside a compressed file are extracted and scanned. If there is not enough space on the Communicator drive to extract an individual file in the archive, that file is skipped during the scan of the archive. However, users are still protected if Auto-Protect is enabled. When the skipped files are accessed after extraction, Auto-Protect will scan the files.

Expansion card scans

Symantec Client Security does not scan newly inserted expansion cards. Users must manually initiate a scan after inserting an expansion card.

Administrators can remotely initiate a scan of expansion cards using Short Message Service (SMS) messages.

See [“Initiating scans and updates remotely”](#) on page 35.

Remote virus scans

The administrator can initiate interactive and non-interactive virus scans on a device remotely.

See [“Initiating scans and updates remotely”](#) on page 35.

About firewall protection

You can create and manage firewall policies that are as restrictive or permissive as necessary to control access to and from devices.

See [“About configuring Symantec Client Firewall”](#) on page 46.

The firewall is enabled by default, with the protection level set to Medium.

[Table 3-1](#) describes the default protection level settings.

Table 3-1 Default protection level settings

Parameter	Default setting
LocalTrafficAllowed	Set to allow local traffic
IGMPAllowed	Set to disallow all IGMP messages
TrafficNotifications	Set to issue no notifications
Inbound connections	None are allowed
Outbound connections	All are allowed
ICMP Echo Request	Set to AllowOutgoing
Echo Reply	Set to AllowIncoming
Packet Too Big	Set to AllowIncoming

What to tell users about Symantec Client Security

Information that you may want to give users about how Symantec Client Security functions and what may happen on their devices based on your configuration of the software include the following:

- Symantec AntiVirus
- If the administrator has locked antivirus settings, these settings appear dimmed on the devices, and cannot be changed by the users.
 - The administrator can initiate remote interactive and non-interactive scans. Interactive scans require users to delete or repair any infected files.
 - If the administrator initiates a remote interactive scan, a dialog appears that displays all of the files that are being scanned.
 - Users should initiate an on-demand scan any time that they think that the device may contain a virus. On-demand scans are particularly important if users have ever disabled Auto-Protect on the device.
 - Auto-Protect does not automatically scan expansion cards. However, if users attempt to access an infected file on an expansion card, Auto-Protect will detect the infected file.
 - Any time users insert an expansion card, they should initiate an on-demand scan.

See [“About configuring Symantec Client Security”](#) on page 39.

- Symantec Client Firewall
- If the administrator has locked firewall settings, these settings appear dimmed on the devices, and cannot be changed by the users.
 - Firewall settings may interfere with the normal operation of some applications. For example, setting the protection level to High will severely restrict traffic.

See [“About configuring Symantec Client Firewall”](#) on page 46.

About the Activity Log

The device maintains a local history of antivirus and firewall activity. The following activities can be viewed only from the device:

- [Virus-related activities](#)
- [Firewall-related activities](#)

Virus-related activities

The following virus-related activities are recorded by the device:

Partial scan	A partial scan entry is added when users cancel a scan, or scan only part of the device (for example, only the device's main memory, and not its expansion card).
Full scan	A full scan entry is added when the entire device, including any expansion cards, is scanned.
Found virus	A found virus entry is added whenever Symantec Client Security identifies a file that is infected with a virus. Included in this entry is the action that was taken on the infected file.

Firewall-related activities

The following firewall-related activities are recorded by the device:

Blocked outbound TCP connection	An entry is added when a blocked outbound TCP connection is attempted.
Blocked inbound TCP connection	An entry is added when a blocked inbound TCP connection is attempted.
Port scanning attempt	An entry is added when port scanning is attempted.

For each firewall-related activity, the log provides the following details:

- Date of occurrence
- Time of occurrence
- Protocol involved (TCP only)
- Direction (Outbound/Inbound)
- Source IP address
- Source port
- Destination IP address
- Destination port

Note: The amount of firewall log entries within a specified time interval is limited. If there are a large number of events in a short time, only a subset of these events will be logged.

When the log is full

When the Activity Log reaches 100 KB in size, Symantec Client Security first compacts the log file, which usually frees up a lot of space. If compacting the log file does not free up enough space, entries are deleted (oldest first) until the size drops below 100 KB. Users can also delete individual log entries or clear the entire log to keep it from using too much memory.

Best practices for protecting devices

The best practices for protecting devices are as follows:

- Run LiveUpdate regularly to get the latest virus definitions.
- Scan the devices regularly with the latest virus definitions.
- Keep Auto-Protect enabled.
- Keep the firewall enabled, with the protection level set to at least Medium.
- Ask users to pay attention to warnings that appear during the installation of other applications, such as invalid certificates, unknown vendors, and so on, and make sure that you trust the source before continuing with the installation.
- Enforce a password policy. Using complex passwords helps to prevent or limit damage when a device is compromised.
- If you don't already have antivirus software on your email server, you should configure your email server to block or remove messages that contain file attachments that are commonly used to spread viruses, such as .vbs, .bat, .exe, .pif, and .scr files.
- Isolate infected devices quickly to prevent compromising your organization further. Perform a forensic analysis and restore the devices using trusted media.
- Instruct users not to open attachments unless they are expecting them. If Auto-Protect is disabled, users should not run software that they download from the Internet unless it has been scanned for viruses.

Updating devices

This chapter includes the following topics:

- [About updating devices](#)
- [What to tell users about updates](#)
- [Initiating LiveUpdate Wireless remotely](#)
- [Best practices for updating devices](#)

About updating devices

Symantec Client Security supports the following types of updates:

Virus definitions file updates	Symantec products use virus definitions files to identify viruses. Symantec Security Response researches and responds to new virus threats and provides customers with updates of virus definitions files as new viruses emerge.
Software updates	Symantec occasionally provides software patches to Symantec products.
Engine updates	Symantec occasionally provides antivirus scan engine updates to take into account new types of threats that have been identified.

LiveUpdate Wireless

Administrators and users can access Symantec Client Security updates by using LiveUpdate Wireless. [Table 4-1](#) lists and describes each update method.

Table 4-1 Possible update methods

Method	How it works	When to use it
LiveUpdate Wireless using the HTTP protocol on the Internet	A pull operation initiated by the device users or a push operation initiated by the administrator on a device on which LiveUpdate Wireless is being used. LiveUpdate Wireless downloads the update directly from the Symantec LiveUpdate server.	Use this method when you want updates to come directly from Symantec.
LiveUpdate Wireless using an internal server	A pull operation initiated by the device users or a push operation initiated by the administrator on a device on which LiveUpdate Wireless is being used. LiveUpdate Wireless requests the update directly from an internal LiveUpdate server that is configured by an administrator.	Use this method when you want to control the updates that the devices can retrieve.

Information about setting up an internal LiveUpdate server is located in the *LiveUpdate Administrator’s Guide*. The guide is available on the Symantec Support Web site:

<http://www.symantec.com/techsupp/files/lu/lu.html>

What to tell users about updates

Users need to know that when they update certain products, they may need to turn their phones off and then on again for the update to take effect. If this occurs, they will see a dialog that tells them what to do.

If you want your users to use an HTTP proxy for LiveUpdate Wireless, you need to tell them the address and port to use, and the user name and password that is required for authentication, if necessary. Because proxy settings are set through the Symbian OS software and not through Symantec Client Security, users should refer to their Symbian documentation for information about how to add these settings.

Initiating LiveUpdate Wireless remotely

You can initiate a search for virus definitions files and product updates on the devices.

See [“Initiating scans and updates remotely”](#) on page 35.

Best practices for updating devices

Update devices with the latest virus definitions files and product updates regularly.

Initiating scans and updates remotely

This chapter includes the following topics:

- [About the Short Message Service \(SMS\) Listener](#)
- [About the command-line program](#)
- [Initiating remote operations using SMS or the command-line program](#)

About the Short Message Service (SMS) Listener

The Short Message Service is available on many digital-based mobile communications systems. An SMS message is usually 140 to 160 characters long, with each character 7 or 8 bits in length. SMS messages can be sent and received in either text mode or Protocol Description Unit (PDU) mode. If the device is not on or is out of range, messages can be stored in the network and delivered when the device is next available.

The SMS Listener that is installed on the device as part of Symantec Client Security is a background process that listens on a Symantec private port (57319) for incoming binary SMS messages. An SMS message sent to this port can be used to initiate interactive or non-interactive virus scans, or to initiate LiveUpdate Wireless to update virus definitions and product software on a device.

SMS Listener can be enabled or disabled using a Symantec Settings Builder configuration file.

See [Table 6-3, “Antivirus configuration parameters,”](#) on page 43.

SMS message format

SMS messages that are sent to SMS Listener must be in PDU mode. The SMS messages that you send should use the following characteristics:

- Protocol Identifier (TP-PID)
 - Protocol ID subgroup: SME interworking, SME-to-SME protocol
- Data Coding Scheme (TP-DCS)
 - Coding Group: Coding/Message class
 - Alphabet: 8-bit data
 - Message Class: Class 1 ME-specific
- Application Port Addressing
 - Create port addressing field: Destination port 57319

Using SMS messaging

The Symantec SMS message payload format is as follows:

CommandIDTotalLengthData

Table 5-1 describes each of the message payload fields.

Table 5-1 Message payload fields

Field	Length	Description
CommandID	2 bytes	The action to be taken when the message is received. Defined CommandIDs are as follows: <ul style="list-style-type: none">0: Perform a silent search for updates to all products and virus definitions.1: Start the Symantec AntiVirus user interface to scan for viruses interactively.2: Start the Symantec AntiVirus user interface to scan for viruses without interaction.
TotalLength	2 bytes	TotalLength is the length of the entire payload, in bytes.
Data	N bytes This field is optional.	The final field can be present or not, depending on the value of the CommandID field. Currently, the Data field is reserved for future use.

Note: The binary SMS payload sent by some software programs must have the byte order of every two- and four- byte quantity reversed.

Some sample payloads are shown in [Table 5-2](#).

Table 5-2 Sample payloads

Sample payload	What this payload does
00000004	Initiates a silent update of all products and virus definitions
00020004	Initiates a non-interactive virus scan
00000400	Initiates a silent update of all products and virus definitions (byte order reversed)
02000400	Initiates a non-interactive virus scan (byte order reversed)

To use SMS messaging

- 1 Prepare the appropriate binary SMS payload.
- 2 Configure the software that you are using to send the binary SMS message using the SMS message format information that is provided.
Ensure that you send the message to destination port 57319.
- 3 Use your software to send the message.

About the command-line program

A command-line program is installed on the device as part of Symantec Client Security. This program can be used by other programs to initiate interactive or non-interactive virus scans, or to initiate LiveUpdate Wireless to update virus definitions and product software on the device.

This command-line program is designed to be run from another program, such as a local script prepared for use with mobile device management software, so that it can pass command-line arguments that specify the command to run. If the command-line program is run without arguments (for example, from the Symbian user interface using the File Manager), it does nothing.

The command-line program has one argument, the CommandID, which is a required keyword that specifies the command to run. The CommandIDs are as follows:

SUPDALL	Silent update of all installed products and virus definitions files
ISCAN	Interactive scan of the device
SSCAN	Non-interactive (silent) scan of the device

Initiating remote operations using SMS or the command-line program

Using the defined CommandIDs for SMS messages or the command-line program, you can initiate a search for virus definitions files and product updates, and interactive and non-interactive virus scans on the devices.

You can use any program that is available to you that allows you to send binary SMS messages. When using the command-line program, you can use any available program that can run the command-line program.

If you use one of these methods to initiate an update, and one or more products or the virus definitions are updated, a message that says “Symantec products updated” is displayed on the device until the user dismisses it.

If an update requires that the phone be turned off and then on again, a message that says “Symantec products updated - phone restart required” is displayed on the device until the user dismisses it.

If an interactive scan discovers a virus, users are prompted to delete the file or repair it (if possible).

Note: If device reception is inadequate, an update may fail silently, and you will need to initiate it again.

Configuring Symantec Client Security

This chapter includes the following topics:

- [About configuring Symantec Client Security](#)
- [About the sample configuration file](#)
- [About configuring Symantec Client Firewall](#)
- [Using Symantec Settings Builder](#)
- [Transferring configuration files to the devices](#)
- [Testing a new configuration](#)
- [Best practices when configuring components](#)

About configuring Symantec Client Security

Symantec Client Security provides the Symantec Settings Builder administration tool for the wireless configuration of the product that is running on Nokia Communicators. Symantec Settings Builder is a command-line tool that lets administrators create configuration files to set and lock Symantec AntiVirus and Symantec Client Firewall parameters, and to set LiveUpdate Wireless parameters on the devices. The administrator can distribute files to devices using their existing infrastructure to transfer update and configuration files.

About the sample configuration file

The Symantec Settings Builder executable takes a file in the standard Windows .ini file format as input. The sample input file that is provided with Symantec Settings Builder is named ssb.ini.

To configure devices remotely, you need to do the following:

- Copy and rename the ssb.ini file.
- Edit your copy of this input configuration file to set the Symantec AntiVirus, LiveUpdate Wireless, and Symantec Client Firewall configuration parameters that you want.
- Use Symantec Settings Builder to package these settings into configuration (.cfg) files that you can distribute to your devices.

Depending on how you edit your input configuration file, Symantec Settings Builder produces one or more of the following files:

- av.cfg Symantec AntiVirus configuration file for the Nokia Communicator
- lu.cfg LiveUpdate Wireless configuration file for the Nokia Communicator
- fw.cfg Symantec Client Firewall configuration file for the Nokia Communicator

By default, Symantec Settings Builder creates all the .cfg files in the order given. The files are placed in the current directory of your computer by default, but you can specify another location for them by setting the OutputDir parameter in your input file.

Examining the ssb.ini file

The ssb.ini file is annotated with comments that explain the various parameters and how to set them. You should open and look at the ssb.ini file while following the complete reference to the file contents that is provided here.

The file is divided into the sections that are shown in [Table 6-1](#). A summary of the section parameters is provided in the tables that are noted.

Table 6-1 ssb.ini sections

ssb.ini section	Description	Files affected
[SSB]	Application operation parameters See Table 6-2 .	All files

Table 6-1 ssb.ini sections

ssb.ini section	Description	Files affected
[AV]	Symantec AntiVirus configuration parameters See Table 6-3 .	av.cfg
[LU]	LiveUpdate Wireless configuration parameters See Table 6-4 .	lu.cfg
[FW]	General Symantec Client Firewall configuration parameters See Table 6-5 .	fw.cfg
[FW.IncomingSvcs]	Incoming user-defined services for custom firewall parameters See the following: <ul style="list-style-type: none"> ■ Table 6-6, User-defined incoming services count parameter ■ Table 6-7, User-defined incoming services entry format ■ Table 6-8, User-defined incoming services sample entries 	fw.cfg
[FW.InStdSvcs]	Incoming standard services for custom firewall parameters See the following: <ul style="list-style-type: none"> ■ Table 6-9, Standard incoming services count parameter ■ Table 6-10, Standard incoming services entry format ■ Table 6-11, Standard incoming services sample entries 	fw.cfg
[FW.OutgoingSvcs]	Outgoing user-defined services for custom firewall parameters See the following: <ul style="list-style-type: none"> ■ Table 6-12, User-defined outgoing services count parameter ■ Table 6-13, User-defined outgoing services entry format ■ Table 6-14, User-defined outgoing services sample entries 	fw.cfg

Table 6-1 ssb.ini sections

ssb.ini section	Description	Files affected
[FW.OutStdSvcs]	<p>Outgoing standard services for custom firewall parameters</p> <p>See the following:</p> <ul style="list-style-type: none"> ■ Table 6-15, Standard outgoing services count parameter ■ Table 6-16, Standard outgoing services entry format ■ Table 6-17, Standard outgoing services sample entries 	fw.cfg
[FW.ICMPMsgs]	<p>ICMP message types for custom firewall parameters</p> <p>See the following:</p> <ul style="list-style-type: none"> ■ Table 6-18, ICMP message types count parameter ■ Table 6-19, ICMP message types format ■ Table 6-20, ICMP message types sample entries ■ Table 6-21, ICMP message types values 	fw.cfg

SSB section parameters

[Table 6-2](#) describes the application operation parameters in the ssb.ini file.

Table 6-2 Application operation parameters

SSB section parameter	Description
Verbose=<value>	<p>Determines the level of verbosity Symantec Settings Builder produces, where <value> is one of the following:</p> <ul style="list-style-type: none"> ■ 0: This turns off verbose mode. ■ 1: This turns on verbose mode so that Symantec Settings Builder shows progress and parameter values on the console when it runs. <p>Note: Validation error messages are sent to standard error output when you run Symantec Settings Builder, regardless of whether the Verbose parameter is set to 1.</p> <p>The default setting is 0 (disabled).</p>

Table 6-2 Application operation parameters

SSB section parameter	Description
OutputDir=<path>	<p>The location where the .cfg files are generated. If the directories do not exist, they will be created. The directory part of the path must end with a backslash (\).</p> <p>The default is the current directory (.).</p>

About configuring Symantec AntiVirus and LiveUpdate Wireless

You can configure Symantec AntiVirus and LiveUpdate Wireless settings by pushing configuration files to the devices. Users can configure settings on the devices if the settings are not locked.

When you push new configuration files for Symantec AntiVirus ([AV] section) and LiveUpdate Wireless ([LU] section), the settings in the new file completely overwrite the current settings on the device. Any parameter that is not explicitly set in the configuration files reverts to its default value.

AV section parameters

[Table 6-3](#) describes the Symantec AntiVirus configuration parameters in the ssb.ini file.

Table 6-3 Antivirus configuration parameters

AV section parameter	Description
Create=<value>	<p>Determines whether a file is produced for Symantec AntiVirus configuration settings, where <value> is one of the following:</p> <ul style="list-style-type: none"> 0: This does not produce a file for Symantec AntiVirus settings. 1: This creates an av.cfg file with Symantec AntiVirus settings. <p>The default is 1 (create Symantec AntiVirus settings).</p>
AutoProtect=<value>	<p>Determines whether AutoProtect is enabled, where <value> is one of the following:</p> <ul style="list-style-type: none"> 0: This disables AutoProtect. 1: This enables AutoProtect. <p>The default is 1 (enabled).</p>

Table 6-3 Antivirus configuration parameters

AV section parameter	Description
LockAutoProtect=<value>	<p>Determines whether users can change the Auto-Protect setting on the device, where <value> is one of the following:</p> <ul style="list-style-type: none"> ■ 0: This enables users to change the setting on the device. ■ 1: This prevents users from changing the setting on the device. The Auto-Protect user interface on the device is locked. <p>The default is 0 (allow user change).</p>
EnableSMSListener=<value>	<p>Enables the SMS Listener program installed on the device, where <value> is one of the following:</p> <ul style="list-style-type: none"> ■ 0: This disables the SMS Listener. ■ 1: This enables the SMS Listener. <p>The default is 1 (enabled).</p> <p>See “About the Short Message Service (SMS) Listener” on page 35.</p>

LU section parameters

[Table 6-4](#) describes the LiveUpdate Wireless parameters in the ssb.ini file.

Table 6-4 LiveUpdate Wireless configuration parameters

LU section parameter	Description
Create=<value>	<p>Determines whether a file is produced for LiveUpdate Wireless configuration settings, where <value> is one of the following:</p> <ul style="list-style-type: none"> ■ 0: This does not produce a file for LiveUpdate Wireless settings. ■ 1: This creates an lu.cfg file with LiveUpdate Wireless settings. <p>The default is 1 (create LiveUpdate Wireless settings).</p>
Enabled=<value>	<p>Determines whether LiveUpdate Wireless is enabled, where <value> is one of the following:</p> <ul style="list-style-type: none"> ■ 0: This disables LiveUpdate Wireless. ■ 1: This enables LiveUpdate Wireless. <p>The default is 1 (enabled).</p>

Table 6-4 LiveUpdate Wireless configuration parameters

LU section parameter	Description
UseInternal=<value>	<p>Determines whether LiveUpdate Wireless uses an internal LiveUpdate server or the Symantec LiveUpdate server, where <value> is one of the following:</p> <ul style="list-style-type: none"> 0: This disables the use of an internal LiveUpdate server. The Symantec LiveUpdate server will be used. 1: This enables the use of an internal LiveUpdate server. <p>Use an internal server if you want to control the updates users can access.</p> <p>The default is 0 (disabled).</p> <p>See “LiveUpdate Wireless” on page 32.</p>
InternalURL=<URL>	<p>Sets the URL of the internal LiveUpdate server that you want to use. This parameter can be specified with an IP address in the following format:</p> <p>http://111.222.333.444/</p> <p>The maximum number of characters that are allowed in the URL is 255.</p> <p>If UseInternal is set to 1, this parameter is mandatory. If UseInternal is set to 1 and this parameter is not set, a validation error is sent to standard error output.</p> <p>There is no default.</p>

About configuring Symantec Client Firewall

You can configure Symantec Client Firewall settings by pushing configuration files to the devices. Users can configure settings on the devices if the settings are not locked.

When you are configuring firewall settings, keep in mind the following considerations:

- This implementation of Symantec Client Firewall stops all TCP/IP network traffic that is not specifically enabled or allowed by its configuration settings.
- If you plan to configure your own custom settings for the Symantec Client Firewall, you must set the `ProtectionLevel` parameter to 3.
- When you push new configurations for Symantec Client Firewall using the custom `ProtectionLevel` (parameter value of 3), any parameter that is not explicitly set in the configuration files takes its predefined value for that protection level. The only exceptions are the enabled and locked parameters. If you set the `ProtectionLevel` parameter to 0, 1, or 2, and you also set values in the input file for `LocalTrafficAllowed`, `IGMPAllowed`, and `TrafficNotifications`, the predefined values are used and the values that you set explicitly in the file for `LocalTrafficAllowed`, `IGMPAllowed`, and `TrafficNotifications` are ignored.
- When you use the custom firewall configuration features (`ProtectionLevel` set to 3), you can configure the firewall incrementally. If a setting is not changed by the new configuration file, it remains in force on the device until it is either explicitly changed by a new configuration file or it is changed on the device through the user interface. For example, if you have previously set the device to allow all Telnet traffic, and you push a configuration file that sets the device to allow only SMTP traffic, the device subsequently allows all Telnet and SMTP traffic.
- If you configure the firewall settings of your devices by pushing a configuration file, the only way to take firewall entries out of the user interface on the device is to set their state to Delete.
- To return to a default state for firewall settings, you can set the `ProtectionLevel` parameter to 1 (Medium) and push that firewall configuration file to the devices.

Stateful inspection

The firewall uses stateful inspection, a process that creates a connection state table that tracks information about current connections such as source and destination IP addresses, ports, and applications. For example, if a firewall rule permits a client to connect to a Web server, the firewall logs connection information in the state table. When the server replies, the firewall checks the state table, discovers that a response from the Web server to the client is expected, and permits the Web server traffic to flow to the initiating client without inspecting the rulebase. A rule must permit the initial outbound traffic before the firewall logs the connection in the state table.

Stateful inspection allows you to simplify your firewall configuration because you don't have to create rules that permit traffic in both directions for traffic typically initiated in one direction only. Client traffic typically initiated in one direction includes Telnet (port 23), HTTP (port 80), and HTTPS (port 443, encrypted Web traffic). These are preset for you as standard services. Clients initiate this traffic outbound so you only have to create a rule that permits outbound traffic for these protocols. The firewall permits the return traffic when it inspects the state table.

By configuring outbound rules only, when possible, you increase client security in the following ways:

- Reduce rulebase complexity.
- Eliminate the possibility that a worm or other malicious program can initiate connections to a client on ports configured for outbound traffic only. You can also configure inbound rules only, for traffic to clients that clients do not initiate.

Stateful inspection supports all rules that direct TCP/UDP traffic. Stateful inspection does not support rules that filter ICMP traffic. For ICMP, you must create rules that permit traffic in both directions when necessary. For example, if you want clients to use the ping command and receive replies, you must create a rule that permits ICMP traffic in both directions.

FW section parameters

Table 6-5 describes the general firewall parameters in the ssb.ini sample file that you can configure using Symantec Settings Builder.

Table 6-5 Symantec Client Firewall general configuration parameters

FW section parameter	Description
Create=<value>	<p>Determines whether a file is produced for Symantec Client Firewall configuration settings, where <value> is one of the following:</p> <ul style="list-style-type: none">■ 0: This does not produce a file for firewall settings.■ 1: This outputs firewall settings to the fw.cfg file. <p>The default is 1 (create firewall settings).</p>
Enabled=<value>	<p>Determines whether the Symantec Client Firewall is enabled, where <value> is one of the following:</p> <ul style="list-style-type: none">■ 0: This disables the firewall.■ 1: This enables the firewall. <p>The default is 1 (enabled).</p>
LocalTrafficAllowed=<value>	<p>Determines whether local traffic is allowed by Symantec Client Firewall. Local traffic (loopback) is TCP/IP traffic that is moving between the applications that are running on the devices. <value> is one of the following:</p> <ul style="list-style-type: none">■ 0: This does not allow local traffic.■ 1: This allows local traffic. <p>The default is 1 (allow local traffic).</p> <p>If you know that your devices do not require local traffic, disallowing it prevents malicious applications from exploiting this type of communication.</p>
IGMPAllowed=<value>	<p>Determines whether IGMP traffic is allowed by Symantec Client Firewall. IGMP is commonly used to send multimedia files to multicast groups. <value> is one of the following:</p> <ul style="list-style-type: none">■ 0: This does not allow IGMP traffic.■ 1: This allows IGMP traffic. <p>The default is 1 (allow IGMP traffic).</p>

Table 6-5 Symantec Client Firewall general configuration parameters

FW section parameter	Description
TrafficNotifications=<value>	<p>Determines whether the firewall sends traffic notifications to the device user interface. Traffic notifications are short messages that appear briefly on the device when a Symantec Client Firewall rule blocks traffic. <value> must be one of the following:</p> <ul style="list-style-type: none"> ■ 0: This sends no notifications. ■ 1: This sends notifications about incoming traffic. ■ 2: This sends notifications about outgoing traffic. ■ 3: This sends notifications about both incoming and outgoing traffic. <p>The default is 0 (no notification).</p>
ProtectionLevel=<value>	<p>Determines the degree of protection that is provided by the firewall, where <value> is one of the following:</p> <ul style="list-style-type: none"> ■ 0: Low ■ 1: Medium ■ 2: High ■ 3: Custom <p>Low, Medium, and High levels are preconfigured for your convenience. If you are satisfied with the preconfigured settings, you don't need to set the Count parameter or write individual rules for incoming and outgoing services, or ICMP message types.</p> <p>Low uses the following parameter values:</p> <ul style="list-style-type: none"> ■ LocalTrafficAllowed=1 (yes) ■ IGMPAllowed=0 (no) ■ TrafficNotifications=0 (none) ■ All inbound connections are allowed ■ All outbound connections are allowed ■ ICMP Echo Request is set to AllowOutgoing, and Echo Reply and Packet Too Big are set to AllowIncoming. <p>Medium uses the same parameter values as Low, except that no inbound connections are allowed.</p> <p>High uses the same parameter values as Medium, with the following exceptions:</p> <ul style="list-style-type: none"> ■ Only the following predefined outbound connections are enabled: FTP, IMAP3, IMAP4, SMTP, POP3, HTTPS, HTTP, and Telnet ■ TrafficNotifications=2 (outgoing) <p>If you want to set the individual parameters yourself using the Count parameters and table values in your configuration input file, set the ProtectionLevel=3 (Custom) and set the counts for the services and ICMP message types that you want to configure individually.</p> <p>The default is 1 (Medium).</p>

Table 6-5 Symantec Client Firewall general configuration parameters

FW section parameter	Description
Locked=<value>	<p>Allow users to, or prevent users from, modifying firewall settings on the devices.</p> <ul style="list-style-type: none">■ 0: Allow users to modify firewall settings on the devices.■ 1: Do not allow users to modify firewall settings on the devices. The firewall user interface on the devices is locked. <p>The default is 0 (allow modification).</p>

Incoming services

The incoming services section of the ssb.ini file is used to configure local ports on the device. Incoming services enable inbound connections that are solicited from the device.

There are two kinds of incoming services, standard and user-defined. You can create as many user-defined services as you need on the device. It is unlikely that you would need to set incoming services individually on the device.

FW.IncomingSvc section

[Table 6-6](#) describes the Count parameter for the FW.IncomingSvc section of the ssb.ini file, which is used to configure user-defined incoming services.

Table 6-6 FW.IncomingSvc section parameter

FW.IncomingSvc section parameter	Description
Count=<value>	<p>Specifies the number of entries that you are configuring for user-defined incoming services. Incoming services configure local ports. There must be a property for each entry numbered 0 through count-1. Missing entries are flagged as an error. Duplicate entries are ignored, as is any entry with a value that is greater than or equal to count.</p> <p>Default is 0 (no user-defined incoming services configured).</p>

[Table 6-7](#) describes the format of user-defined service entries for inbound connections.

Table 6-7 User-defined incoming services entry format

FW.IncomingSvcs section number	Enabled/ Disabled/ Deleted	First port	Last port	Port type	Description
The count entry number	0=Disabled 1=Enabled 2=Delete Note: Delete disables the service and removes it from the device's user interface. Disabling a service simply dims that option on the device's user interface.	0-65535 To set a single port, set the first and last ports to the same number.	0-65535 This must be greater than or equal to the first port.	0=TCP 1=UDP	128 bytes, string This message appears in the user interface on the device. The message may not contain commas (.).

[Table 6-8](#) gives examples of user-defined service entries for inbound connections.

Table 6-8 Sample user-defined incoming services entries

Number	Enabled/ Disabled/ Deleted	First port	Last port	Port type	Description
0=	1,	0,	100,	0,	"Service 100"
1=	1,	101,	200,	0,	"Service 200"

FW.InStdSvcs section

Table 6-9 describes the Count parameter for the FW.InStdSvcs section of the ssb.ini file, which is used to configure standard incoming services.

Table 6-9 FW.InStdSvcs section parameter

FW.InStdSvcs section parameter	Description
Count=<value>	Specifies the number of entries that you are configuring for standard incoming services. Incoming services configure local ports. There must be a property for each entry numbered 0 through count-1. Missing entries are flagged as an error. Duplicate entries are ignored, as is any entry with a value that is greater than or equal to count. Default is 0 (no incoming services configured).

Table 6-10 describes the format of standard service entries for inbound connections.

Table 6-10 Standard incoming services entry format

FW.InStdSvcs section number	Service ID	Enabled/Disabled
The count entry number	All_TCP=8 All_UDP=9	0=Disabled 1=Enabled

Table 6-11 gives examples of standard service entries for inbound connections.

Table 6-11 Sample standard incoming services entries

Number	Service ID	Enabled/Disabled
0,	8,	1
1,	9,	0

Outgoing services

The outgoing services section of the ssb.ini file is used to configure connections to remote services. There are two kinds of outgoing services, standard and user-defined. You can create as many user-defined services as you need on the device.

FW.OutgoingSvcs section

[Table 6-12](#) describes the Count parameter for the FW.OutgoingSvcs section of the ssb.ini file, which is used to configure user-defined outgoing services.

Table 6-12 FW.OutgoingSvcs section parameter

FW.OutgoingSvcs section parameter	Description
Count=<value>	Specifies the number of entries that you are configuring for user-defined outgoing services. Outgoing services configure remote ports. There must be a property for each entry numbered 0 through count-1. Missing entries are flagged as an error. Duplicate entries are ignored, as is any entry with a value that is greater than or equal to count. Default is 0 (no outgoing services configured).

[Table 6-13](#) describes the format of entries for user-defined outgoing services.

Table 6-13 User-defined outgoing services entry format

FW.OutgoingSvcs section number	Enabled/Disabled/Deleted	First port	Last port	Port type	Description
The count entry number	0=Disabled 1=Enabled 2=Delete Note: Delete disables the service and removes it from the device's user interface. Disabling a service simply dims that option on the device's user interface.	0-65535 To set a single port, set the first and last ports to the same number.	0-65535 This must be greater than or equal to first port.	0=TCP 1=UDP	128 bytes, string This message appears in the user interface on the device. Note: The message may not contain commas (.).

[Table 6-14](#) gives examples of entries for user-defined outgoing services.

Table 6-14 Sample user-defined outgoing services entries

Number	Enabled/Disabled/Deleted	First port	Last port	Port type	Description
0=	1,	800,	900,	0,	"My Service1"
1=	1,	500,	500,	0,	"My Service2"

FW.OutStdSvcs section

Table 6-15 describes the Count parameter for the FW.OutStdSvcs section of the ssb.ini file, which is used to configure standard outgoing services.

Table 6-15 FW.OutStdSvcs section parameter

FW.OutStdSvcs section parameter	Description
Count=<value>	<p>Specifies the number of entries that you are configuring for standard outgoing services. Outgoing services configure remote ports. There must be a property for each entry numbered 0 through count-1. Missing entries are flagged as an error. Duplicate entries are ignored, as is any entry with a value that is greater than or equal to count.</p> <p>Default is 0 (no outgoing services configured).</p>

Table 6-16 describes the format of entries for standard outgoing services.

Table 6-16 Standard outgoing services entry format

FW.OutStdSvcs section number	Service ID	Enabled/ Disabled
The count entry number	0=FTP 1=IMAP3 2=IMAP4 3=SMTP 4=POP3 5=HTTPS 6=Telnet 7=HTTP 8=All_TCP 9=All_UDP	0=Disabled 1=Enabled

[Table 6-17](#) gives examples of entries for standard outgoing services.

Table 6-17 Sample standard outgoing services entries

Number	Service ID	Enabled/Disabled
0,	0,	1
1,	1,	0
2,	8,	1
3,	9,	0

FW.ICMPMsgs section

Internet Control Message Protocol (ICMP) messages provide feedback about IP networks. For example, they can be used to verify that end systems or routers are operating correctly, or to report errors in processing IP datagrams.

[Table 6-18](#) describes the Count parameter for the FW.ICMPMsgs section of the ssb.ini file, which is used to configure ICMP message type filtering.

Table 6-18 FW.ICMPMsgs section parameter

FW.ICMPMsgs section parameter	Description
Count=<value>	Specifies the number of entries that you are configuring for ICMP message service types. There must be a property for each entry numbered 0 through count-1. Missing entries are flagged as an error. Duplicate entries are ignored, as is as any entry with a value that is greater than or equal to count. Default is 0 (no ICMP message types configured).

The FW.ICMPMsgs section of the ssb.ini file describes the handling of each type of ICMP message. The State parameter in the entry determines the direction of the message’s communication. [Table 6-19](#) describes the format for ICMP message services. Elements in an entry are separated by commas.

Table 6-19 ICMP message services entry format

FW.ICMPMsgs section number	TypeV4	TypeV6	State
The count entry number.	See “ICMP message type values” on page 57.	See “ICMP message type values” on page 57.	0=DisallowAll 1=AllowIncoming 2=AllowOutgoing 3=AllowAll

[Table 6-20](#) gives examples of entries for ICMP message types.

Table 6-20 Sample ICMP message types entries

Number	TypeV4	TypeV6	State
0=	0,	129,	1
1=	8,	128,	2
2=	-1,	2,	1

When configuring message type settings, keep in mind the following considerations:

- Use one entry for each message type that you want to configure.
- The appropriate ICMPv4 and ICMPv6 messages must be paired in each entry. If inappropriate messages are paired, an error message is generated to the console.
- You can configure entries for as many message types as you need.

Note: Once in place on the device, there is no way to delete these entries. You can, however, push a configuration file that sets the state of a message type entry to 0 (DisallowAll) to turn off that message’s function on the device.

ICMP message type values

ICMP messages are identified by a type field. Symantec Client Security supports both ICMPv4 and ICMPv6 message numbers. [Table 6-21](#) lists the allowed values for ICMPv4 and ICMPv6 message types when you use Symantec Settings Builder to configure the firewall. Use these values in the TypeV4 and TypeV6 columns of your ICMP message type entries.

Table 6-21 TypeV4 and TypeV6 message numbers

TypeV4 number	TypeV6 number	TypeV4 message; TypeV6 message
8	128	Echo Request
0	129	Echo Reply
3	1	Destination Unreachable
-1	2	Not supported; Packet Too Big
4	-1	Source Quench; Not Supported
5	137	Redirect
6	6	Alternate Host Address
9	134	Router Advertisement
10	133	Router Solicitation
11	3	Time Exceeded
12	4	Parameter Problem
13	13	Timestamp
14	14	Timestamp Reply
15	15	Information Request
16	116	Information Reply
17	17	Address Mask Request
18	18	Address Mask Reply
30	30	Trace Route
31	31	Datagram Conversion Error
32	32	Mobile Host Redirect
33	33	IPv6 Where-Are-You

Table 6-21 TypeV4 and TypeV6 message numbers

TypeV4 number	TypeV6 number	TypeV4 message; TypeV6 message
34	34	IPv6 I-Am-Here
35	35	Mobile Registration Request
36	36	Mobile Registration Reply
37	37	Domain Name Request
38	38	Domain Name Reply
39	39	SKIP Algorithm Discovery Protocol
40	40	Photuris
-1	130	Not Supported; Multicast Listener Query
-1	131	Not Supported; Multicast Listener Report
-1	132	Not Supported; Multicast Listenership
-1	135	Not Supported; Neighbor Solicitation
-1	136	Not Supported; Neighbor Advertisement
-1	138	Not Supported; Router Renumbering
-1	139	Not Supported; ICMP Node Information Query
-1	140	Not Supported; ICMP Node Information Response
-1	141	Not Supported; Inverse Neighbor Discovery Solicitation
-1	142	Not Supported; Inverse Neighbor Discovery Advertisement
-1	143	Not Supported; Home Agent Address Discovery Request
-1	144	Not Supported; Home Agent Address Discovery Reply
-1	145	Not Supported; Mobile Prefix Solicitation
-1	146	Not Supported; Mobile Prefix Advertisement

You can also find a listing of these message numbers, along with their associated RFC numbers, at www.iana.org, the Internet Assigned Numbers Authority Web site.

Using Symantec Settings Builder

Use Symantec Settings Builder to create the configuration files that you need to set and lock Symantec AntiVirus, Symantec Client Firewall, and LiveUpdate Wireless configuration settings on your devices.

Symantec Settings Builder command-line syntax is as follows:

```
ssb <config_file>
```

where <config_file> is the name of the input configuration file. The input file name may include a full or relative path.

The only command-line options for Symantec Settings Builder are `/?` and `/h`, which display the tool's Help text.

Symantec Client Security for Nokia Communicator, Version 3.0
Settings Builder.

Creates and packages configuration settings for Symbian OS devices as specified by the input configuration file.

Usage:

```
SSB config_file  
        [/?] [/h]
```

```
config_file
```

Input configuration file. May include a full or relative path.

```
/? or /h
```

Displays this help text.

To use Symantec Settings Builder

- 1 Go to the directory where you copied the Symantec Settings Builder `ssb.exe` and sample `ssb.ini` files.
- 2 Copy the sample `ssb.ini` file and give it a new name, for example, `my_config.ini`.
- 3 Edit and save this file to set the Symantec AntiVirus, Symantec Client Firewall, and LiveUpdate Wireless configuration settings that you want.
- 4 At the command line, type:
`ssb my_config.ini`

Depending on how you edited your version of the .ini file, this produces one or more of the following files:

av.cfg	Symantec AntiVirus configuration file for configuring Symantec Client Security on the device
lu.cfg	LiveUpdate Wireless configuration file for configuring Symantec Client Security on the device
fw.cfg	Firewall configuration file for configuring Symantec Client Security on the device

The files are placed in the directory specified by your OutputDir parameter. If you set configuration parameters for Symantec AntiVirus, LiveUpdate Wireless, and Symantec Client Firewall, you see output similar to the following:

```
Creating AntiVirus configuration.  
Creating LiveUpdate configuration.  
Creating Firewall configuration.
```

Troubleshooting configuration files

The configuration files are created by Symantec Settings Builder in the following order:

- av.cfg
- lu.cfg
- fw.cfg

If you use an invalid entry in your input configuration file, Symantec Settings Builder generates an error message to the console and stops creating output files. For example, if you set it to produce all of the configuration files, but you set the Enabled parameter for LiveUpdate Wireless to equal 3 (which is an invalid entry), Symantec Settings Builder will produce the av.cfg file and then stop.

Note: When you run Symantec Settings Builder, you see any validation error messages that are generated on the console regardless of whether the Verbose parameter is set to 1.

Transferring configuration files to the devices

Symantec Settings Builder configuration files are designed to be used with the administrator's existing infrastructure to transfer update and configuration files to the devices.

The existing infrastructure that administrators use to transfer update and configuration files must be configured as follows:

- To place the configuration files in specific locations on the device.
- To invoke the proper configuration executable for each file to ensure that the file takes effect on the device.

Required file locations

The existing infrastructure that administrators use to transfer update and configuration files must be configured to place the Symantec Client Security configuration files on the device in the locations that are shown in [Table 6-22](#).

Table 6-22 Required configuration file locations

Configuration file	Device directory
av.cfg, fw.cfg	C:\System\Apps\SymCS
lu.cfg	C:\System\Apps\SymLU

Configuration executables

The existing infrastructure that administrators use to transfer configuration files must invoke the proper configuration executable for each file to ensure that the file takes effect on the device. The configuration executables are installed on the device in the correct location when you initially install Symantec Client Security on the devices. Configuration executables and their locations are listed in [Table 6-23](#).

Table 6-23 Configuration executables

Configuration file	Configuration executable
av.cfg	C:\System\Apps\SymCS\avcfg.exe
fw.cfg	C:\System\Apps\SymCS\fwcfg.exe
lu.cfg	C:\System\Apps\SymLU\lucfg.exe

Once the files are transferred to the device and the configuration executables are invoked, the new configurations take effect.

Testing a new configuration

You should always push the configuration files that are produced by Symantec Settings Builder to at least one device and check to see that the parameters you set have the desired effect on the device before you deploy them to multiple devices.

How you test your configuration depends on the parameters that you set, but in general, it is good practice to push the files to a device, and then check at least one parameter that you set for each of the components (Symantec AntiVirus, LiveUpdate Wireless, and Symantec Client Firewall).

For Symantec AntiVirus, you should check that the Auto-Protect setting is as you set it in the file. For LiveUpdate Wireless, you can check that it is enabled or disabled, as you set it in the file. If you set it to use an internal LiveUpdate server, run a LiveUpdate Wireless session from the device to ensure that the updates download.

In the case of the firewall, you'll need to initiate traffic that should be stopped and traffic that should go through to see if your configuration gives the expected results. For example, if you've set traffic notifications to 3 (both incoming and outgoing), check to see that traffic alerts appear on the device screen.

Best practices when configuring components

The best practices for configuring devices are as follows:

- Keep Auto-Protect enabled.
- Keep the firewall enabled, with the protection level set to at least Medium.
- Configure your email server to block or remove messages that contain file attachments that are commonly used to spread viruses, such as .vbs, .bat, .exe, .pif, and .scr files.

If you customize your firewall settings, you should do the following:

- Enable the following communication protocols:
 - HTTP
 - HTTPS
- Enable the email protocol that your organization uses:
 - IMAP3
 - IMAP4
 - SMTP
 - POP3
- Enable the following protocols if required:
 - Telnet
 - FTP

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